



FLUSH LABORATORIES (10/666/698)

ABSTRACT

These devices (in conjunction with an existing toilet flushing assembly) become a two step controlled water flushing system in the toilet tank. The handle is integrally connected to the control shaft assembly so that when revolved in one direction the shaft linkage will engage the existing toilet mechanism and a full flush will occur through a flapper valve. When the handle is revolved in the opposite direction the shaft linkage will engage the Interrupter device. The Interrupter device can be simply installed within the water tank. It will cause a limited amount of water to be discharge into the toilet bowl through its own flapper valve. The partial water flushed through the Interrupter device shall be sufficient for a full flush of the liquid portion of the waste. The water in the tank returns to the high point, each time, after each flush as the air float ball rises to the water cut-off switch's upper limit. The Interrupter device can be used for other applications other than toilets. They can be made for use in pneumatic as well as hydraulic systems. It is shown here in this particular form where water conservation is a desired solution.

BRIEF DESCRIPTION OF THE DRAWING

The drawing shows an existing toilet mechanism modified to include this invention's devices that will cause a smaller proportion of the water required for the liquid waste part of the flush.

Fig 1 shows the toilet at rest; the Interrupter cylinder installed.
Fig 2 shows the invention and it partial flush taking place. (Tier 1)
Fig 3 shows the full flush taking place. (Tier 2)